

TABLE A-2

Companies in the target population and selected for the sample, by industry and company size: 2020

(Number of companies)

Industry and company size	NAICS code	Companies in target population ^a	Companies selected for the sample		
			All companies	Noncertainties	Certainties
All industries	21–23, 31–33, 42–81	1,139,000	47,500	22,500	25,000
Manufacturing industries	31–33	97,000	18,500	8,600	10,000
Food	311	9,400	1,200	600	550
Beverage and tobacco products	312	3,600	450	300	150
Textile, apparel, and leather products	313–16	3,700	550	350	200
Wood products	321	4,900	600	400	200
Paper	322	1,500	400	200	200
Printing and related support activities	323	5,900	950	600	400
Petroleum and coal products ^b	324	350	200	30	150
Chemicals	325	5,200	2,200	550	1,600
Basic chemicals	3251	700	300	90	200
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	550	200	60	150
Pesticide, fertilizer, and other agricultural chemicals	3253	300	150	30	100
Pharmaceuticals and medicines	3254	1,600	900	100	800
Soap, cleaning compound, and toilet preparation	3256	800	200	100	100
Paint, coating, adhesive, and other chemicals	3255, 3259	1,200	400	150	250
Plastics and rubber products	326	4,800	1,000	500	550
Nonmetallic mineral products	327	3,900	550	300	200
Primary metals	331	1,700	450	200	250
Fabricated metal products	332	20,500	2,300	1,400	900
Machinery	333	9,400	2,100	900	1,100
Agricultural implement	33311	550	200	40	150
Semiconductor machinery	333242	90	90	0	90
Engine, turbine, and power transmission equipment	3336	400	150	30	150
Other machinery	other 333	8,400	1,600	850	800
Computer and electronic products	334	4,800	1,700	500	1,200
Communications equipment	3342	600	250	50	200
Semiconductor and other electronic components	3344	1,800	500	200	300
Navigational, measuring, electromedical, and control instruments	3345	1,800	750	250	500
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	350	200	30	150
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	250	100	D	100
Other measuring and controlling devices	other 3345	1,300	450	200	250
Other computer and electronic products	other 334	600	200	30	150
Electrical equipment, appliances, and components	335	2,200	600	350	300
Transportation equipment	336	4,800	1,200	350	850

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Motor vehicles, bodies, trailers, and parts	3361-63	3,000	650	200	450
Aerospace products and parts	3364	850	300	70	250
Aircraft, aircraft engine, and aircraft parts	336411-13	800	250	70	200
Guided missile, space vehicle, and related parts	336414, 336415, 336419	50	50	D	50
Military armored vehicle, tank, and tank component	336992	30	20	0	20
Other transportation equipment	other 336	900	200	70	150
Furniture and related products	337	4,300	850	450	400
Miscellaneous manufacturing	339	6,500	1,300	550	700
Medical equipment and supplies	3391	2,400	550	150	400
Other miscellaneous	3399	4,100	750	400	350
Unclassified	-	60	50	0	50
Nonmanufacturing industries	21-23, 42-81	1,040,000	26,500	14,000	12,500
Mining, extraction, and support activities	21	5,000	600	300	300
Utilities	22	800	200	40	150
Wholesale trade	42	67,000	5,400	3,700	1,700
Electronic shopping and electronic auctions	454111-12	5,300	500	350	150
Transportation and warehousing	48-49	36,000	750	150	600
Information	51	16,500	3,600	1,400	2,100
Publishing	511	5,500	1,300	600	750
Newspaper, periodical, book, and directory publishers	5111	2,400	400	200	200
Software publishers	5112	3,100	900	350	550
Telecommunications	517	2,600	500	300	250
Data processing, hosting, and related services	518	3,500	1,100	300	850
Other information	other 51	4,900	550	300	250
Finance and insurance	52	26,000	1,200	200	1,000
Real estate and rental and leasing	53	25,500	500	150	400
Lessors of nonfinancial intangible assets (except copyrighted works)	533	450	90	D	90
Other real estate and rental and leasing	other 53	25,000	450	150	300
Professional, scientific, and technical services	54	100,000	7,400	4,000	3,400
Architectural, engineering, and related services	5413	18,000	2,700	1,700	1,100
Computer systems design and related services	5415	16,500	3,000	1,700	1,300
Scientific research and development services	5417	2,600	2,600	0	2,600
Research and development in nanotechnology	541713	90	90	0	90
Research and development in biotechnology (except nanobiotechnology)	541714	700	700	0	700

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			All companies	Noncertainties	Certainties
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,700	1,700	0	1,700
Research and development in the social sciences and humanities	541720	150	150	0	150
Other professional, scientific, and technical services ^c	other 54	66,000	1,700	700	1,000
Health care services	621-23	114,000	2,000	550	1,400
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	643,000	4,100	2,900	1,200
Unclassified	-	350	150	D	150
Company size (number of domestic employees)					
All companies	-	1,139,000	47,500	22,500	25,000
< 10 ^d	-	8,300	400	150	250
10-19	-	560,000	10,000	7,800	2,300
20-49	-	367,000	10,000	7,000	3,200
50-99	-	111,000	6,600	3,700	2,900
100-249	-	59,500	7,400	2,900	4,500
250-499	-	17,000	4,000	750	3,200
500-999	-	8,100	4,000	50	4,000
1,000-4,999	-	6,500	3,600	60	3,500
5,000-9,999	-	900	600	20	550
10,000-24,999	-	600	400	D	400
25,000 or more	-	350	300	D	250

D = suppressed to ensure confidentiality of individual companies.

NAICS = 2017 North American Industry Classification System.

^a Estimates of the number of companies in the target population are based on the original sampling frame that was created to select the 2020 Business Enterprise Research and Development (BERD) Survey sample. These estimates do not include 150 R&D performers from the previous year's sample, which were not on the original sampling frame but were found during the survey's annual contact update procedures. These companies were added to the 2020 sample with certainty but are not reflected in the number of certainties selected for the sample.

^b Because of the widespread practice of the larger petroleum extraction and refining companies vertically integrating their activities, Petroleum refineries (NAICS 32411) and Oil and gas extraction (NAICS 211) were combined during sampling.

^c Contains companies classified in Scientific research and development services (NAICS 5417) that, as of sampling, were not fully classified to the level of detail in Research and development in nanotechnology (NAICS 541713), Research and development in biotechnology (except nanobiotechnology) (NAICS 541714), Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology) (NAICS 541715), or Research and development in the social sciences and humanities (NAICS 541720).

^d This category includes companies that are represented on the sampling frame as having missing data, but these companies are in scope to the BERD because they have at least \$500,000 in annual payroll.

Note(s):

Beginning in survey year 2019, counts reflect a change in rounding methodology. Detail may not add to total because of rounding. Certainities are companies whose probability of selection is 1 based on prior year R&D expenditures equal to or greater than \$3 million as well as others included in the sample for analytical purposes (analytical certainities). Noncertainties are companies whose probability of selection is less than 1. Companies that were missing or had an incomplete NAICS code at the time of sampling were assigned to an Unclassified industry category temporarily. If an unclassified company reported R&D expenditures, its primary industrial activity was investigated and a NAICS code was assigned during statistical processing.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2020.